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COLORADO DEPARTMENT OF HEALTH
Radiation Control Division

Minutes of Exchange of Information Meeting
Colorado Department of Health
January 30, 1990 1:30 p.m.

Attendees:

Robert W. Terry	Colorado Department of Health/RCD
Mark Levin	EG&G
Hallie Mahan	City of Broomfield
Bonnie Pauley	EG&G
R.W. Hawes	EG&G
Steve Ramer	City of Westminster
Caren Johannes	Colorado Department of Health/HMWMD
George Setlock	EG&G
Bob Mero	Colorado Department of Health/Labs
Tony Harrison	Colorado Department of Health/RCD
Judy Bruch	Colorado Department of Health/RFPU
Mark E. Van Der Puy	U.S. DOE/Environmental Monitoring Branch
Barb Moore	Concerned citizen & RFCC
Richard Gamewell	Colorado Department of Health/RCD
Paula Elofson-Gardine	Concerned Health Technicians for a Cleaner Colorado
Terry Smith	EG&G
Jeff Schwartz	EG&G
Mike Bartleson	Broomfield
Pat Etchart	U.S. DOE
D.B. Eaton	Sierra Club
Craig Sanders	Jefferson County Health Department
Sharon Bernia	City of Westminster

G. Setlock presented the Quarterly Update of the List of Materials Used or Handled at the Rocky Flats Plant. No changes have occurred since the last update. Dr. Setlock will respond to a question regarding the use of cesium chloride in plutonium processes at Rocky Flats.

H. Mahan presented the City of Broomfield Radiometric Monitoring Reports for November and December. All data were consistent with measurements that have been made in the past. The November report included late results of analysis for organic compounds in a sample collected from Pond A-4 on October. No water flowed from the Rocky Flats plant area into Great Western Reservoir at any time during November or December.

S. Ramer presented the City of Westminster Radiation Data Monthly Report for the months of November and December. All data were consistent with measurements that have been made in the past.

G. Setlock presented the November and December Rocky Flats Plant Environmental Monitoring Reports. Analysis of a sample taken from Pond A-4 during the period spanning October 7th and 8th yielded anomalous results. The results are summarized in the report. Three aliquots of the sample were analyzed. The

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average assay of the first aliquot was 81.44 pCi/L of Pu-239. The second and third aliquots yielded assays of .087 and .019 pCi/L. Rocky Flats personnel have reported the concentration of plutonium-239 in Pond A-4 for that period as 0.053 pCi/L, the average of assays of the second and third aliquots. Unexpected results of americium-241 analysis of Pond C-1 and Denver drinking water in November, and of Westminster drinking water in December, have given an indication to Rocky Flats personnel that there may be a procedural problem in its americium analysis. This problem will be investigated further. The analytical procedure for beryllium analysis remains unsettled. The air filters employed in sampling contain large and variable amounts of beryllium relative to the quantity that is measured in the samples. Therefore, there is no blank correction made in the beryllium analysis, resulting in reported values that are greater than the true quantities of beryllium that are present in the samples. The true quantities of beryllium are not known, but would be something smaller than the values that are reported.

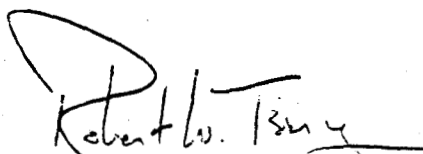
R. Terry presented the Colorado Department of Health Monthly Environmental Surveillance Reports on the Rocky Flats Plant for the months of November and December. Of particular interest was a data set of very high quality that was collected from the Department's ambient air surveillance samplers that are located around the plant. Although there is nothing unusual about the data that were presented, the quality and utility of the data were noted. Positive measurements of plutonium-239 in the Westminster finished water composites for the months of October and November were reported. The positive values are not consistent with measurements that have been performed by the Department of Health in the past. The measurements were also inconsistent with the apparent absence of Pu-239 in samples of raw (untreated) water that were collected during the same time period.

No significant changes were reported for any of the monitoring programs. Beginning with the January 1990 report, the Department of Health will discontinue the reporting of monthly comparison data for Ponds A-3 and B-3. The Department of Health will begin reporting monthly comparison data for Ponds A-4 and B-5.

Dr. Setlock presented an organizational chart for the EG&G Rocky Flats Plant operations. Copies of the organizational chart will be available at future meetings.

Dr. Setlock made available copies of the 1988 Environmental Monitoring Report. A discussion of the report has been scheduled for a future meeting.

The next monthly Environmental Information Exchange Meeting will be held at 1:30 p.m., Tuesday, February 27, 1990, at the Broomfield City Council Chambers, #6 Garden Center, Broomfield, Colorado.


Robert W. Terry
Senior Health Physicist
Colorado Department of Health